PTO/SB/05 (08-03)

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## UTILITY PATENT APPLICATION

| Attomey Docket No.     | 1190860-991410         |       |
|------------------------|------------------------|-------|
| First Inventor         | Sung-Ho LEE            |       |
| Title                  | Liquid Crystal Display |       |
| Express Mail Label No. | EV 302279966 US        | PT 71 |

| ĭ   | TRANSMITTAL         |                  | Title  | Title Liqu  |   | Crystal Display                            |                 |                              |           |        |   |
|---|---------------------|------------------|--|---|---|--|-----------------|------------------------------|-----------|--------|---|
| (Only for new nonprovisional applications under 37 CFR 1.53(b))   |                     |                  | Expres   | s Mail Label No.  | EV 302  | 2279966 US                                 |                 | PT<br>71                     | 7         |        |   |
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.   |                     |                  | ADDF   | ADDRESS TO:  Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450 |   |  | -               | , U.S<br>/7511               |           |        |   |
| 1. Fee Transmittal Form (e.g., PTO/SB/17)  (Submit an original and a duplicate for fee processing)  Applicant claims small entity status.  See 37 CFR 1.27.  3. Specification [Total Pages 9 ]  (preferred arrangement set forth below)  Descriptive title of the invention  Cross Reference to Related Applications Statement Regarding Fed sponsored R & D  Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description  Claim(s) Abstract of the Disclosure  4. Drawing(s) (35 U.S.C. 113) [Total Sheets 2 ]  5. Oath or Declaration [Total Sheets 3 ] a. Newly executed (original or copy) Unsigned b. Copy from a prior application (37 CFR 1.63(d))  (for continuation/divisional with Box 18 completed)  i DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  Application Data Sheet. See 37 CFR 1.76 |                     |                  |  | 8. Nu ( a b b l l l l l l l l l l l l l l l l l   | 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney  11. English Translation Document (if applicable)  12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1499 Citations  13. Preliminary Amendment  14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed) |  |                 |                              |           |        |   |
| 18. If a CONT   | TINUING A           | APPLICATIO       | N, check appropri  | iate box, and s   | upply the re  |  |                 | 551363<br>d in the first sei |           | the    | - |
|   |                     | the title, or in | an Application Da  |   |   | _  |                 | an Na                        |           |        |   |
|   | ntinuation          | Ц                | Divisional   | Contin  | nuation-in-pai  | ,  | ior application | on No.:                      |           |        |   |
| 5b. is consider   | ATION OF red a part | DIVISIONAL A     | Examiner  APPS only; The enti ure of the accompa upon when a portion | nying continuat<br>n has been inad  | ion or divisi<br>vertently om   | onal application an<br>itted from the subn | ch an oath o    | incorporated by              |           |        |   |
|   |                     |                  | 19.  | CORRESPO  | ONDENCE   | ADDRESS                                    |                 |                              | ·,        |        | _ |
| ⊠ Custo   | omer Nur            | mber:            |  | 26379   |   | OR   | ☐ Com           | espondence a                 | address I | below  | _ |
| Name  |                     | lld L. Yin       |  |   |   |  |                 |                              | •         |        |   |
| Address Gray Cary Ware & Freidenrich  |                     |                  |  |   |   |  | _               |                              |           |        |   |
| 2000 University Avenue  |                     |                  |  |   |   | <u> </u>                                   |                 | 7:0.4                        | 0.4000    |        | _ |
| City  | <del></del> -       | Palo Alto        |  | Γ   | 0.010   | CA   | 24              | Zip Code                     | 94303     | 2 2004 | _ |
|   |                     |                  | Telephone   650-833-2121   Fax   650-833                             |   |   | J-2001                                     | =               |                              |           |        |   |
|   |                     |                  |  |   | Regist  | ration No. (Attorne                        | ey/Agent)       | 27,607                       | mbor 20   | 2002   | _ |
| Signature Kanald Z. Y.  |                     |                  |  |   |   |  |                 | Date Decei                   | 11061 30  | , 2003 | ر |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** 

| (\$) | 770. | .00 |
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| Complete if Known    |                   |                                       |  |  |
|----------------------|-------------------|---------------------------------------|--|--|
| Application Number   | 1190860-991410    | · · · · · · · · · · · · · · · · · · · |  |  |
| Filing Date          | December 30, 2003 |                                       |  |  |
| First Named Inventor | Sung-Ho LEE       | <u></u>                               |  |  |
| Examiner Name        | Not yet assigned  |                                       |  |  |
| Art Unit             | Not yet assigned  |                                       |  |  |
| Attorney Docket No.  | 1190860-991410    |                                       |  |  |

| METHOD OF PAYMENT (check all that apply)                              |  |                | FEE CALCULATION (continued) |              |               |  |             |
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| Check Credit card Money Other None                                    |  |                | DITIO                       | NAL          | FEES          |  | ·           |
|   | Order  | <u>Large I</u> | Entity                      | Small        | <b>Entity</b> |  |             |
| Deposit A   | Account:   |                | Fee                         |              | Fee           | Fee Description  |             |
| Deposit<br>Account  | Deposit<br>Account 07-1896   |                | (\$)                        | Code         | (\$)          | , as assemble.   | Fee Paid    |
| Number  |  | 1051           | 130                         | 2051         | 65            | Surcharge - late filing fee or oath                            |             |
| Deposit<br>Account  | Gray Cary Ware & Freidenrich LLP   | 1052           | 50                          | 2052         | 25            | Surcharge - late provisional filing fee or                     |             |
| Name The Director is  | authorized to: (check all that apply)  | 1              |                             |              |               | cover sheet  |             |
|   | s) indicated below Credit any overpayments   | 1053           | 130                         | 1053         | 130           | Non-English specification                                      |             |
| _ ,   | additional fee(s) or any underpayment of fee(s)  | 1812           | 2,520                       | 1812         | 2,520         | For filing a request for ex parte reexamination                |             |
|   |  | 1804           | 920*                        | 1804         | 920*          | Requesting publication of SIR prior to<br>Examiner action      | <u> </u>    |
| _ `   | s) indicated below, except for the filing fee entified deposit account.                  |                |                             |              |               |  |             |
| to the above-ide  |  | 1805           | 1,840*                      | 1805         | 1,840*        | Requesting publication of SIR after<br>Examiner action         |             |
| 4 54010 51  | FEE CALCULATION  |                |                             |              |               |  |             |
| 1. BASIC FI   |  | 1251           | 110                         | 2251         |               | Extension for reply within first month                         |             |
|   | Fee Fee Fee Description Fee Paid   | 1252           | 420                         | 2252         | 210           | Extension for reply within second month                        |             |
|   | Code (\$) .  | 1253           | 950                         | 2253         | 475           | Extension for reply within third month                         |             |
| 1001 770  | 2001 385 Utility filing fee 770.00   | 1254<br>1255   | 1,480<br>2,010              | 2254<br>2255 | 740           | Extension for reply within fourth month                        |             |
| 1002 340  | 2002 170 Design filing fee   | 1401           | 330                         | 2401         | 1,005         | Extension for reply within fifth month                         | 1           |
| 1003 530  | 2003 265 Plant filing fee  | 1401           | 330                         | 2402         | 165           | Notice of Appeal Filing a brief in support of an appeal        |             |
| 1004 770  | 2004 385 Reissue filing fee  | 1403           | 290                         | 2403         | 145           | Request for oral hearing                                       |             |
| 1005 160  | 2005 80 Provisional filing fee   | 1451           | 1,510                       | 1451         | 1,510         | Petition to institute a public use proceeding                  |             |
|   | SUBTOTAL(1) (\$) 770.00  | 1452           | 110                         | 2452         | ·             | Petition to revive - unavoidable                               |             |
|   |  | 1453           | 1,330                       | 2453         | 665           | Petition to revive - unintentional                             |             |
| 2. EXTRA C  | CLAIM FEES FOR UTILITY AND REISSUE   | 1501           | 1,330                       | 2501         | 665           | Utility issue fee (or reissue)                                 |             |
|   | Extra Claims below Fee Paid  | 1502           | 480                         | 2502         | 240           | Design issue fee   |             |
| Total Claims  | 03 -20** = 0 x 18 = 0  | 1503           | 640                         | 2503         | 320           | Plant issue fee  |             |
| Independent<br>Claims   | 01 -3" = 0 x 86 = 0  | 1460           | 130                         | 1460         | 130           | Petitions to the Commissioner                                  |             |
| Multiple Deper  | ndent =  | 1807           | 50                          | 1807         | 50            | Processing fee under 37 CFR 1.17(q)                            |             |
| Large Entity  |  | 1806           | 180                         | 1806         | 180           | Submission of Information Disclosure Stmt                      |             |
| Fee Fee<br>Code (\$)  | Fee Fee <u>Fee Description</u><br>Code (\$)  | 8021           | 40                          | 8021         | 40            | Recording each patent assignment per                           |             |
| 1202 18   | • •  | 1809           | 770                         |              |               | property (times number of properties)                          |             |
| 1201 86   | 2202 9 Claims in excess of 20  |                |                             | 2809         | 385           | Filing a submission after final rejection                      |             |
| 1203 290  | 2201 43 Independent claims in excess of 3 2203 145 Multiple dependent claim, if not paid |                |                             |              |               | (37 CFR 1.129(a))  |             |
| 1203 250  | 2204 43 ** Reissue independent claims  | 1810           | 770                         | 2810         | 385           | For each additional invention to be examined (37 CFR 1.129(b)) | <b>  </b>   |
| 1204 00   | over original patent   |                |                             |              |               | , , , , , ,  |             |
| 1205 18   | 2205 9 ** Reissue claims in excess of 20   | 1801           | 770                         | 2801         | 385           | Request for Continued Examination (RCE)                        |             |
|   | and over original patent   | 1802           | 900                         | 1802         | 900           | Request for expedited examination of a design application      | <del></del> |
| SUBTOTAL (2) (\$) 0   |  |                | fee (sp                     | ecity)       |               |  |             |
| **or number previously paid, if greater; For Reissues, see above *Red |  |                |                             | Basic F      | Filing Fe     | e Paid SUBTOTAL (3) (\$)                                       |             |

| SUBMITTED BY      | (Complete (   | (Complete (if applicable)           |        |           |                   |
|-------------------|---------------|-------------------------------------|--------|-----------|-------------------|
| Name (Print/Type) | Ronald L. Yin | Registration No.<br>(Attorney/Agent | 27,607 | Telephone | 650-833-2437      |
| Signature         | Konald Z l    | <u> </u>                            |        | Date      | December 30, 2003 |

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| CERTIFICATE (         | OF MAILING BY "EX        | KPRESS MAIL" (37                | CFR 1.10)            | Docket No.                  |  |  |
|-----------------------|--------------------------|---------------------------------|----------------------|-----------------------------|--|--|
|                       |                          |                                 |                      | 1190860-991410              |  |  |
| Applicant: Sung-H     |                          |                                 |                      |                             |  |  |
| Serial No.            | Filing Date              | Examiner                        | Group Art Unit       |                             |  |  |
| Not Yet Assigned      | December 30, 2003        | Not Yet Assigned                | . N/A                |                             |  |  |
| Invention:            | L                        |                                 |                      |                             |  |  |
| ·                     |                          |                                 |                      |                             |  |  |
| LIQUID CRYSTA         | L DISPLAY                | *                               |                      |                             |  |  |
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| I hereby certify that | this UTILITY P           | ATENT APPLICAT                  | ION UNDER            | 35 USC 371                  |  |  |
|                       |                          | Identify type of correspondence | <u> </u>             |                             |  |  |
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|                       | FR 1.10 in an envelope   |                                 |                      |                             |  |  |
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| December 30, 2003     |                          |                                 |                      |                             |  |  |
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|                       |                          | MARIA                           | Tin Gul              |                             |  |  |
| ·                     |                          | (Typed or                       | Printed Name of Per. | son Mailing Correspondence) |  |  |
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|                       |                          |                                 | SUSAN C. PIN         |                             |  |  |
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